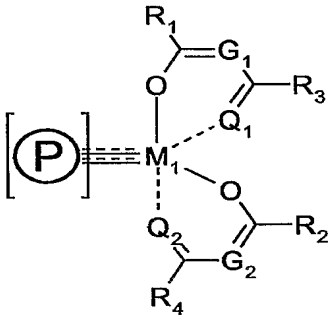
What is claimed is:

1. An optical recording medium comprising a substrate, a recording layer and optionally one or more reflecting layers, wherein the recording layer comprises a compound of formula  (I) or a tautomeric or mesomeric form thereof, wherein

G_1 and G_2 are each independently of the other $C(R_5)$ or N;

M_1 is a lanthanide or transition metal of groups 4 to 10;

Ⓟ is a phthalocyanino diradical;

Q_1 and Q_2 are each independently of the other O or S,

R_1 and R_2 are each independently of the other C_1-C_{12}alkyl, C_3-C_{12}cycloalkyl, C_2-C_{12}alkenyl or C_3-C_{12}cycloalkenyl each unsubstituted or substituted by one or more, where applicable identical or different, radicals R_6, or C_6-C_{10}aryl, C_1-C_9heteroaryl, C_7-C_{12}aralkyl or C_2-C_{12}heteroaralkyl each unsubstituted or substituted by one or more, where applicable identical or different, radicals R_7;

R_3 and R_4 are each independently of the other hydrogen, hydroxy, S-R_8, O-R_8, O-CO-R_8, $OCOOR_8$, NH_2, NH-R_8, NR_8R_9, $NHCOR_8$, NR_8COR_{10}, $NHCOOR_8$, NR_8COOR_{10}, ureido, NR_8-CO-NHR_{10}, or C_1-C_{12}alkyl, C_3-C_{12}cycloalkyl, C_2-C_{12}alkenyl or C_3-C_{12}cycloalkenyl each unsubstituted or substituted by one or more, where applicable identical or different, radicals R_6, or C_6-C_{10}aryl, C_1-C_9heteroaryl,

C_7-C_{12}aralkyl or C_2-C_{12}heteroaralkyl each unsubstituted or substituted by one or more, where applicable identical or different, radicals R_7;

each R_5, independently of any other R_5, is hydrogen, or C_1-C_{12}alkyl, C_3-C_{12}cycloalkyl, C_2-C_{12}alkenyl or C_3-C_{12}cycloalkenyl each unsubstituted or substituted by one or more, where applicable identical or different, radicals R_6, or C_6-C_{10}aryl, C_1-C_9heteroaryl, C_7-C_{12}aralkyl or C_2-C_{12}heteroaralkyl each unsubstituted or substituted by one or more, where applicable identical or different, radicals R_7;

wherein R_1 and R_2, R_2 and R_3, R_3 and R_4 or R_1 and R_4 can be linked by a bonding member, or two of R_1, R_2, R_3 and R_4 can each be linked by a bonding member to one of the two other R_1, R_2, R_3 and R_4 to form pairs, and each bonding member is a direct bond or a bridge O, S or N(R_8); or

R_1 forms with R_5 of G_1 and/or R_3 forms with R_5 of G_2 a saturated, mono- or poly-unsaturated or aromatic 5- or 6-membered ring which may optionally contain 1, 2 or 3 identical or different hetero atoms -O-, -S-, -N= or -N(R_8)-, which ring is unsubstituted or substituted by one or more, where applicable identical or different, radicals R_7; and/or

R_2 forms with R_5 of G_1 and/or R_4 forms with R_5 of G_2 a saturated or mono- or poly-unsaturated 5- or 6-membered ring which may optionally contain 1, 2 or 3 identical or different hetero atoms -O-, -S-, -N= or -N(R_8)-, which ring is unsubstituted or substituted by one or more, where applicable identical or different, radicals R_6;

R_6 is halogen, hydroxy, O-R_{11}, O-CO-R_{11}, oxo, S-R_{11}, thioxo, NH_2, NH-R_{11}, $NR_{11}R_{12}$, NH_3^+, $NH_2R_{11}^+$, $NHR_{11}R_{12}^+$, $NR_{11}R_{12}R_{13}^+$, NR_{11}-CO-R_{13}, $NR_{11}COOR_{13}$, cyano, formyl, COO-R_{11}, carboxy, carbamoyl, CONH-R_{11}, $CONR_{11}R_{12}$, ureido, NH-CO-NHR_{13}, NR_{11}-CO-NHR_{13}, phosphato, P(=O)$R_{11}R_{13}$, $POR_{11}OR_{13}$, $OPR_{11}R_{13}$, $OPR_{11}OR_{13}$, P(=O)$R_{11}OR_{13}$, P(=O)$OR_{11}OR_{13}$, OP(=O)$R_{11}OR_{13}$, OP(=O)$OR_{11}OR_{13}$, OPO_3R_{11}, SO_2R_{11}, sulfato, sulfo, R_{14}, N=N-R_{14}, or C_1-C_8alkoxy or C_3-C_8cycloalkoxy each unsubstituted or mono- or poly-substituted by halogen;

R_7, independently of any other R_7, is R_{15}, halogen, nitro, cyano, thiocyano, hydroxy, S-R_8, O-R_8, O-CO-R_8, $OCOOR_8$, NH_2, NH-R_8, NR_8R_9, $NHCOR_8$, NR_8COR_{10}, $NHCOOR_8$, NR_8COOR_{10}, ureido, NR_8-CO-NHR_{10}, NH_3^+, $NH_2R_8^+$, $NHR_8R_9^+$, $NR_8R_9R_{10}^+$, N=N-R_{15}, $N=CR_8R_9$, $N=CR_{16}R_{17}$, $C(R_{18})=NR_8$, $C(R_{18})=NR_{16}$, $C(R_{18})=CR_{16}R_{17}$, CHO, $CHOR_8OR_{10}$, COR_9, $CR_9OR_8OR_{10}$, $CONH_2$, $CONHR_8$, $CONR_8R_9$, SO_2R_8, SO_3R_8, SO_2NH_2, SO_2NHR_8, $SO_2NR_8R_9$, COOH, $COOR_8$, $B(OH)_2$, $B(OH)(OR_8)$, $B(OR_8)OR_{10}$, phosphato, $P(=O)R_8R_{10}$, POR_8OR_{10}, $P(=O)R_8OR_{10}$, $P(=O)OR_8OR_{10}$, OPR_8R_{10}, OPR_8OR_{10}, $OP(=O)R_8OR_{10}$, $OP(=O)OR_8OR_{10}$, OPO_3R_8, sulfato, sulfo, or C_1-C_5alkyl, C_3-C_6cycloalkyl, C_1-C_5alkylthio, C_3-C_6cycloalkylthio, C_1-C_5alkoxy or C_3-C_6cycloalkoxy each unsubstituted or substituted by one or more, where applicable identical or different, radicals R_6;

R_8, R_9 and R_{10} are each independently of the others R_{15}, R_{19}-[O-C_1-C_4alkylene]$_m$, R_{19}-[NH-C_1-C_4alkylene]$_m$, or C_1-C_8alkyl, C_3-C_8cycloalkyl, C_2-C_8alkenyl or C_3-C_8cycloalkenyl each unsubstituted or substituted by one or more, where applicable identical or different, halogen, hydroxy, C_1-C_5alkoxy or C_3-C_6cycloalkoxy radicals; or

R_8 and R_9 together with the common nitrogen are pyrrolidine, piperidine, piperazine or morpholine, each of which is unsubstituted or mono- to tetra-substituted by C_1-C_4alkyl; or

R_8 and R_{10} together are C_2-C_8alkylene, C_3-C_8cycloalkylene, C_2-C_8alkenylene or C_3-C_8cycloalkenylene, each of which is unsubstituted or substituted by one or more, where applicable identical or different, halogen, hydroxy, C_1-C_5alkoxy or C_3-C_6cycloalkoxy radicals;

R_{11}, R_{12} and R_{13} are each independently of the others C_1-C_8alkyl, C_3-C_8cycloalkyl, C_2-C_8alkenyl, C_3-C_8cycloalkenyl, R_{19}-[O-C_1-C_4alkylene]$_m$, R_{19}-[NH-C_1-C_4alkylene]$_m$, C_6-C_{10}aryl, C_4-C_9heteroaryl, C_7-C_{10}aralkyl or C_5-C_9heteroaralkyl; or

R_{11} and R_{12} together with the common nitrogen are pyrrolidine, piperidine, piperazine or morpholine, each of which is unsubstituted or mono- to tetra-substituted by C_1-C_4alkyl;

R_{14} is C_6-C_{12}aryl, C_4-C_{12}heteroaryl, C_7-C_{12}aralkyl or C_5-C_{12}heteroaralkyl, each of which is unsubstituted or substituted by one or more, where applicable identical or different, radicals R_7;

R_{15} is phenyl, C_4-C_5heteroaryl, C_7-C_8aralkyl or C_5-C_7heteroaralkyl, each of which is unsubstituted or substituted by one or more, where applicable identical or different, radicals R_{20};

R_{16} and R_{17} are each independently of the other $NR_{11}R_{12}$, CN, $CONH_2$, $CONHR_8$, $CONR_8R_9$ or $COOR_9$;

R_{18} is R_{15}, hydrogen, cyano, hydroxy, C_1-C_{12}alkoxy, C_3-C_{12}cycloalkoxy, C_1-C_{12}alkylthio, C_3-C_{12}cycloalkylthio, amino, NHR_{13}, $NR_{11}R_{12}$, halogen, nitro, formyl, COO-R_{11}, carboxy, carbamoyl, CONH-R_{11}, $CONR_{11}R_{12}$, or C_1-C_8alkyl, C_3-C_8cycloalkyl, C_2-C_8alkenyl or C_3-C_8cycloalkenyl each unsubstituted or substituted by one or more, where applicable identical or different, halogen, hydroxy, C_1-C_5alkoxy or C_3-C_6cycloalkoxy radicals; or

R_8 and R_{18} together are C_2-C_8alkylene, C_3-C_8cycloalkylene, C_2-C_8alkenylene or C_3-C_8cycloalkenylene, each of which is unsubstituted or substituted by one or more, where applicable identical or different, halogen, hydroxy, C_1-C_5alkoxy or C_3-C_6cycloalkoxy radicals;

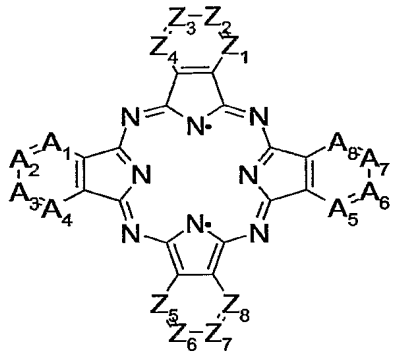
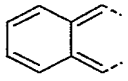
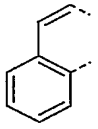
R_{19} is hydrogen, C_1-C_4alkyl or C_1-C_3alkylcarbonyl;

R_{20} is nitro, SO_2NHR_{11}, $SO_2NR_{11}R_{12}$, or C_1-C_8alkyl, C_3-C_8cycloalkyl, C_1-C_8alkylthio, C_3-C_8cycloalkylthio, C_1-C_8alkoxy or C_3-C_8cycloalkoxy each unsubstituted or substituted by one or more, where applicable identical or different, halogen, hydroxy, C_1-C_5alkoxy or C_3-C_6cycloalkoxy radicals; and

m is a number from 1 to 4.

2. An optical recording medium according to claim 1, wherein G_1 and G_2 are each independently of the other $C(R_5)$;

M_1 is a lanthanide or transition metal of groups 4 to 7, especially Ti, Zr or Hf, more especially Zr;

Ⓟ is a phthalocyanino diradical of formula  , wherein A_1 to A_8 and Z_1 to Z_8 are all independently of one another N or CR_{24}, and each R_{24} independently of the other R_{24} is H or R_7; or two adjacent R_{24} together are 1,4-buta-1,3-dienylene,  or  , each of which is unsubstituted or substituted by one or more, where applicable identical or different, radicals R_7 and wherein 1 or 2 carbon(s) may have been replaced by nitrogen; and

Q_1 and Q_2 are O;

R_3 and R_4 are each independently of the other hydrogen, hydroxy, S-R_8, O-R_8, NH_2, NH-R_8, NR_8R_9; C_1-C_8alkyl, C_3-C_8cycloalkyl, C_2-C_8alkenyl or C_3-C_8cycloalkenyl each unsubstituted or substituted by one or more, where applicable identical or different, radicals R_6; or C_6-C_{10}aryl or C_1-C_9heteroaryl each unsubstituted or substituted by one or more, where applicable identical or different, radicals R_7;

R_5 is hydrogen or forms a 5- or 6-membered ring with R_1 or R_2;

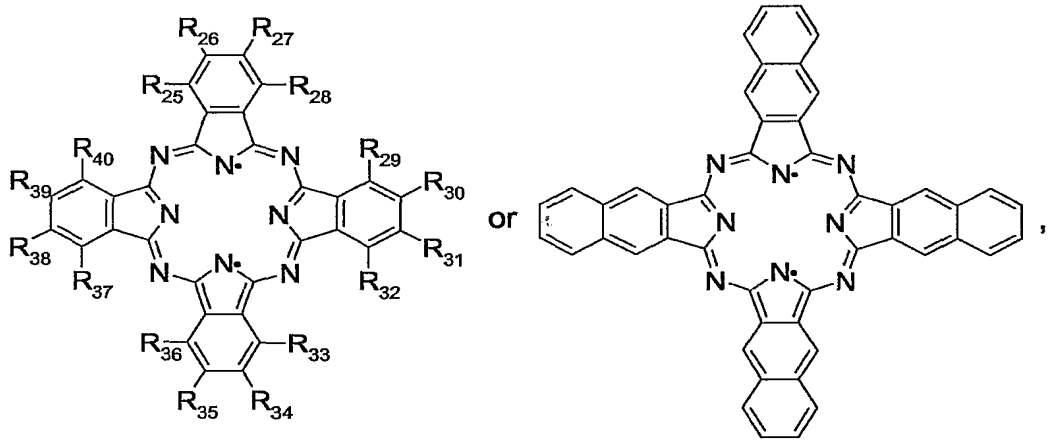
R_6 is halogen, hydroxy, O-R_{11}, O-CO-R_{11}, oxo, NH_2, NH-R_{11}, $NR_{11}R_{12}$, or C_1-C_4alkoxy unsubstituted or mono- or poly-substituted by halogen; and

R_7 is halogen, nitro, cyano, thiocyano, S-R_8, O-R_8, NH_2, NH-R_8, NR_8R_9, $NHCOR_8$, $N=CR_8R_9$, $N=CR_{16}R_{17}$, CHO, $CHOR_8OR_{10}$, COR_9, $CONR_8R_9$, SO_2R_8, $COOR_8$, or C_1-C_5alkyl or C_1-C_5alkoxy each unsubstituted or substituted by one or more, where applicable identical or different, radicals R_6.

3. An optical recording medium according to claim 1 or 2, wherein G_1 and G_2 are each independently of the other C(R_5);

M_1 is Ti, Zr or Hf, more especially Zr;

Ⓟ is a phthalocyanino diradical of formula



wherein R_{25} to R_{40} are all independently of one another H, halogen, O-R_8, S-R_8, O-CO-R_8, NH-R_8, NR_8R_9, CH_2OR_{11}, $CH_2NR_{11}R_{12}$, $C(R_{18})=CR_{16}R_{17}$, CHO, $CHOR_8OR_{10}$, $C(R_{18})=NR_8$, COR_9, $CR_9OR_8OR_{10}$, CN, COOH, $COOR_8$, $CONH_2$, $CONHR_8$, $CONR_8R_9$, SO_2R_8, SO_2NH_2, SO_2NHR_8, $SO_2NR_8R_9$, SO_3R_8, $SiR_8R_9R_{10}$, POR_8OR_{10}, $P(=O)R_8R_{10}$, $P(=O)R_8OR_{10}$, $P(=O)OR_8OR_{10}$, $P(=O)(NH_2)_2$, $P(=O)(NHR_8)_2$, $P(=O)(NR_8R_9)_2$, OPR_8R_{10}, OPR_8OR_{10}, $OP(=O)R_8OR_{10}$, $OP(=O)OR_8OR_{10}$ or OPO_3R_8, more especially H, halogen, O-R_8, O-CO-R_8, NH-R_8, NR_8R_9, CH_2OR_{11} or $CH_2NR_{11}R_{12}$; and also

Q_1 and Q_2 are O;

R_1 and R_2 are each independently of the other C_1-C_5alkyl or C_2-C_5alkenyl, each of which is unsubstituted or substituted by one or more, where applicable identical or different, radicals R_6, or phenyl or C_2-C_5heteroaryl, each of which is unsubstituted or substituted by one or more, where applicable identical or different, radicals R_7;

R_3 and R_4 are each independently of the other hydrogen, hydroxy, S-R_8, O-R_8, NH_2, NH-R_8, NR_8R_9, or C_1-C_5alkyl or C_2-C_5alkenyl each unsubstituted or substituted by one or more, where applicable identical or different, radicals R_6, or phenyl unsubstituted or substituted by one or more, where applicable identical or different, radicals R_7;

R_5 is hydrogen or forms a 5- or 6-membered ring with R_1 or R_2;

R_6 is halogen, hydroxy, O-R_{11}, oxo, NH_2, NH-R_{11} or $NR_{11}R_{12}$; and

R_7 is halogen, nitro, cyano, O-R_8, NH-R_8, NR_8R_9, CHO, $CHOR_8OR_{10}$, COR_9, $CONR_8R_9$, SO_2R_8, $COOR_8$, or C_1-C_5alkyl or C_1-C_5alkoxy each unsubstituted or substituted by one or more, where applicable identical or different, radicals R_6.

4. An optical recording medium according to claim 1, 2 or 3, wherein the compound of formula (I) contains branched C_3-C_{12}alkyl or branched C_3-C_{12}alkenyl.

5. An optical recording medium according to claim 1, 2, 3 or 4, wherein the recording layer is substantially amorphous.

6. An optical recording medium according to claim 1, 2, 3, 4 or 5, additionally comprising a covering layer, wherein substrate, reflector layer, recording layer and covering layer are arranged in that order.

7. An optical recording medium according to claim 1, 2, 3, 4, 5 or 6, which in addition to comprising a compound of formula (I) comprises a metal-free chromophore.

8. An optical recording medium according to claim 1, 2, 3, 4, 5, 6 or 7, wherein the compound of formula (I) according to claim 1 is substantially amorphous.

9. A method of producing an optical recording medium according to claim 1, 2, 3, 4, 5, 6, 7 or 8, wherein a solution of a compound of formula (I) according to claim 1 is applied by spin-coating to a grooved substrate.

10. A method of recording or playing back data, wherein the data on an optical recording medium according to claim 1, 2, 3, 4, 5, 6, 7 or 8 are recorded or played back at a wavelength of from 350 to 500 nm.